

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/797,742	03/10/2004	William Paul Schmidt	06452 USA	3425	
23543	7590 03/13/200	EXAM	EXAMINER		
	UCTS AND CHEMI	LAWRENCE J	LAWRENCE JR, FRANK M		
	EPARTMENT LTON BOULEVARD	ART UNIT	PAPER NUMBER		
ALLENTOV	VN, PA 181951501	1724			

DATE MAILED: 03/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

			ı	,
ŀ		1	•	
ų	7	1		
L	J	,		
_				

	Application No.	Applicant(s)				
Office Action Community	10/797,742	SCHMIDT ET AL.				
Office Action Summary	Examiner	Art Unit				
	Frank M. Lawrence	1724				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status	·					
1) Responsive to communication(s) filed on	Responsive to communication(s) filed on .					
2a) This action is FINAL . 2b) This	action is non-final.					
3)⊠ Since this application is in condition for allowan	ince this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-13 is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Notice of Informal Patent Application (PTO-152)						

Application/Control Number: 10/797,742 Page 2

Art Unit: 1724

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: On page 8 of the specification, the figure must be deleted and resubmitted as a figure of drawing because it cannot be published in the specification. The specification must also be amended to include a brief description of the drawing. In line 1 of claim 9, it appears that "step" should be deleted. Note that Patent No. 6,373,939 listed in the specification and on the information disclosure statement is not related to the invention.

Appropriate correction is required.

Allowable Subject Matter

- 2. Claims 1-13 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: The prior art of record fails to disclose a motivation for using a periodic heating step wherein the adsorbent is periodically heating to a second regeneration temperature greater than the first regeneration temperature.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/797,742 Page 3

Art Unit: 1724

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The references listed on the attached PTO-892 form disclose thermal swing adsorption processes.

5. This application is in condition for allowance except for the following formal matters:

The objections to the specification and claim 9 described in paragraph 1 above.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank M. Lawrence whose telephone number is 571-272-1161. The examiner can normally be reached on Mon-Thurs 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 1724

Frank M. Lawrence Primary Examiner Art Unit 1724

fl

Frank Sauvence 3-8-06